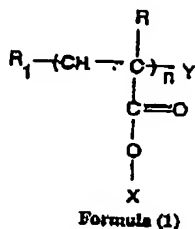


363/NF/02

Abstract

Functional polyvalent oligomer for applications in medicine and biotechnology are disclosed. These oligomers have the formula (1)



wherein R is H, CH₃, C₂H₅, R₁ is H, NH₂, OH, COOH, X is *N-Acetyl* Glucosamine, mannose, galactose and sialic acid, fructose, ribulose, erythrose, xylulose, psicose, sorbose, tagatose, glucopyranose, fructofuranose, deoxyribose, galactosamine, sucrose, lactose, isomaltose, maltose, cellobiose, cellulose and amylose, Y is H, COOH, OH or NH₂, and n is from 3 to 50. The present invention also relates to synthesis of such oligomeric ligands. The method of synthesis of the present invention for oligomerization can be - applied to other ligands such as sialic acid, mannose and galactose and can -be used for the prevention of infections.

BEST AVAILABLE COPY